

# 2012 Annual Department/ Tenant Command Hurricane Preparedness

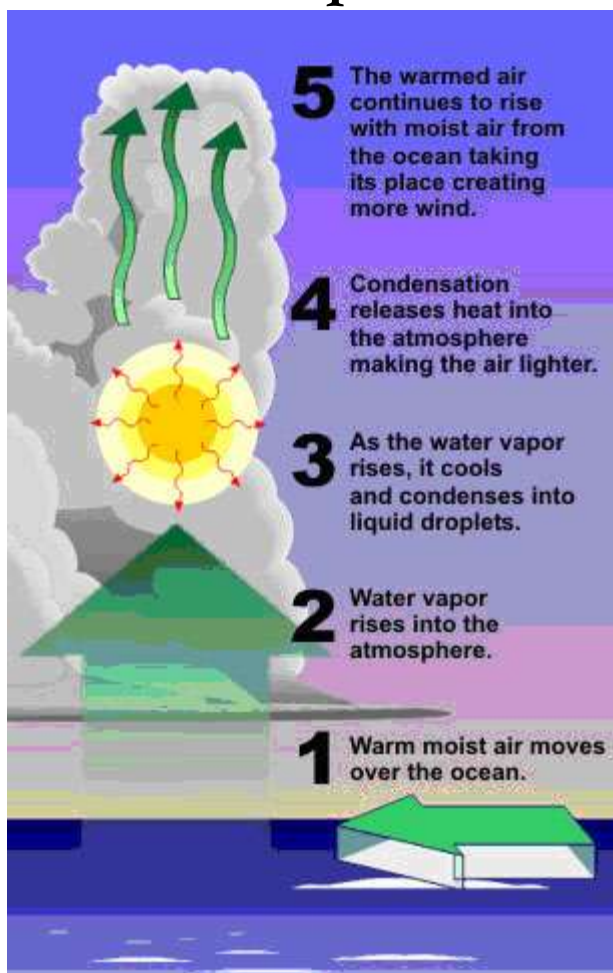
- Welcome
- Navy Tropical Information
- FAQs
- Climo/History
- 2010/11 Season
- 2012 Summary
- Preparedness
- 2012 Stickers

Duncan St - Sep 2004  
(looking south from front gate)

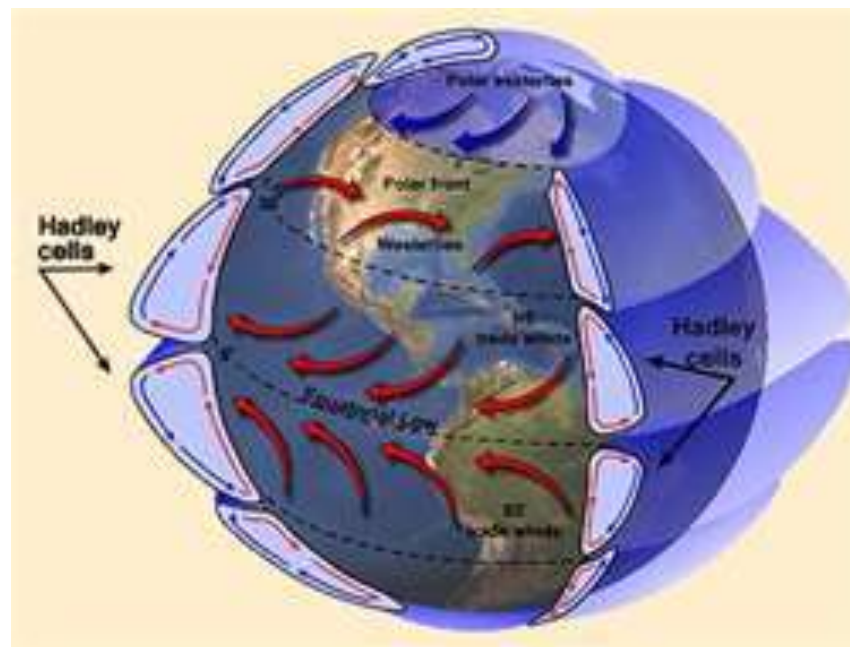


# 5 ingredients for hurricane development

## 1. atmosphere Instability

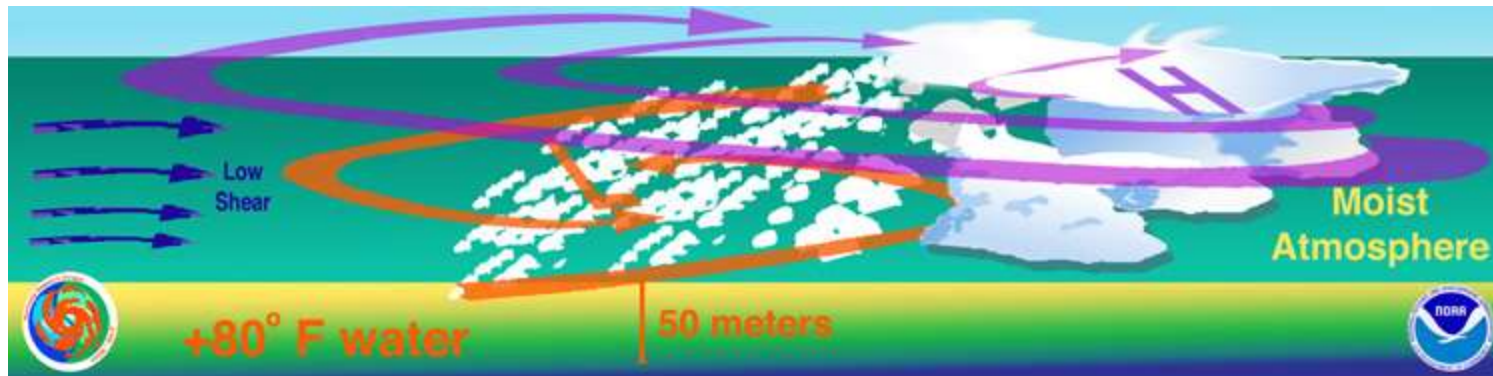


## 2. Coriolis effect



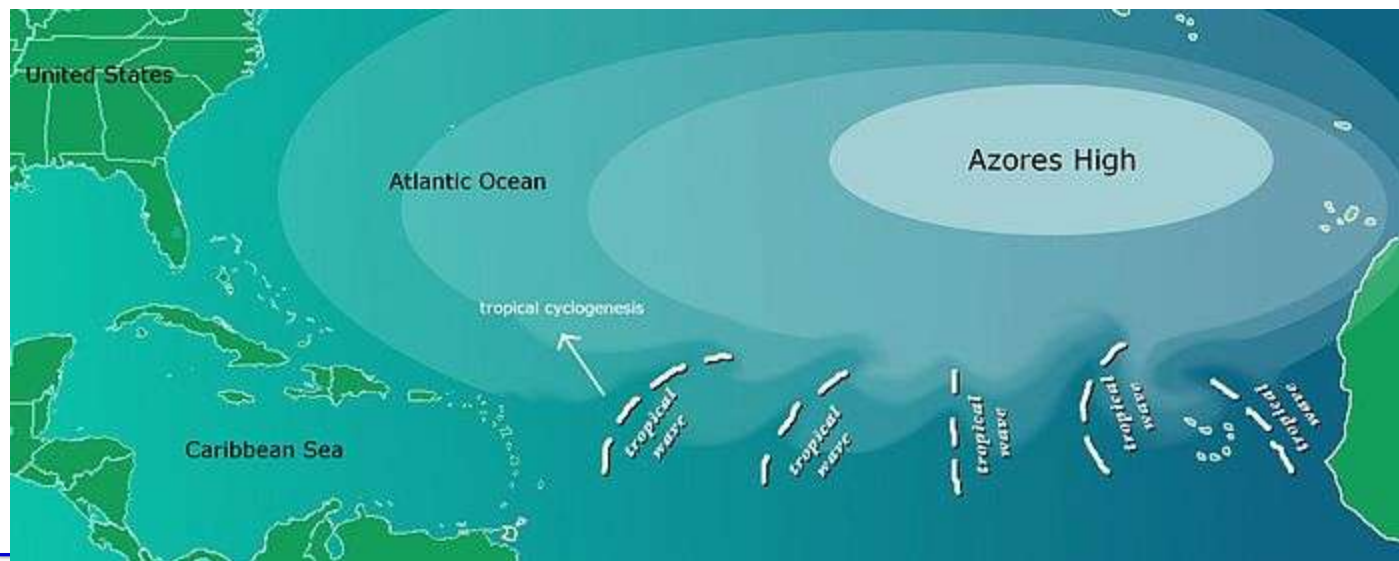
***NAS Pensacola Mission***— support operational and training missions of tenants assigned; enhancing the readiness of the U.S. Navy, its sister armed services and other customers.





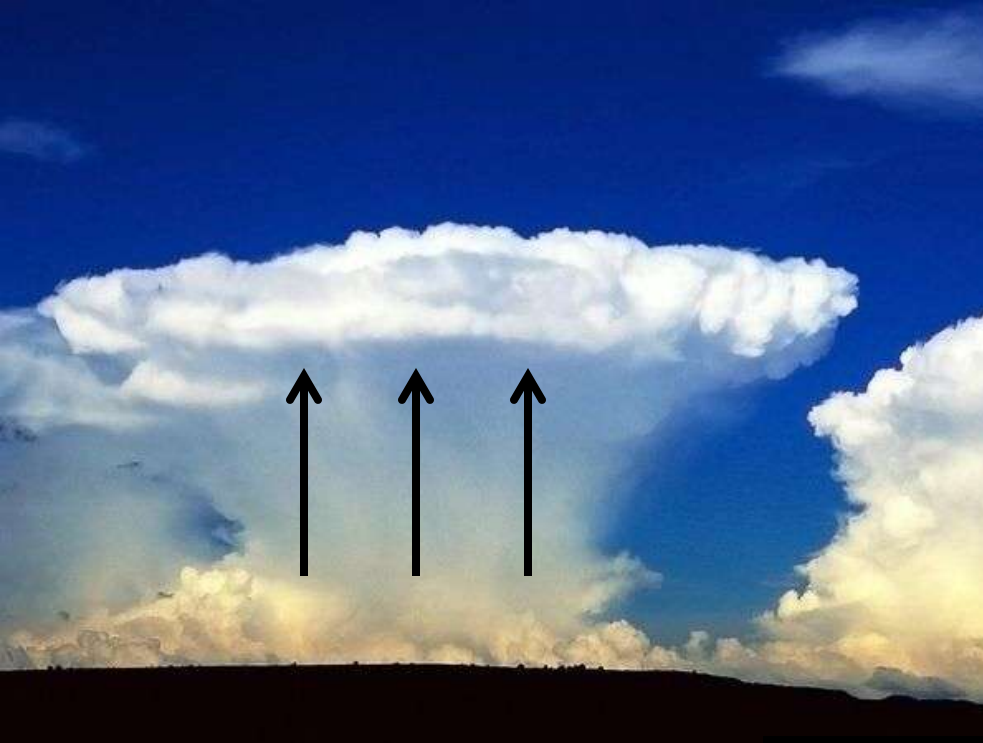
3. Sea surface Temp  
of 80 Deg

4. Triggering  
mechanism

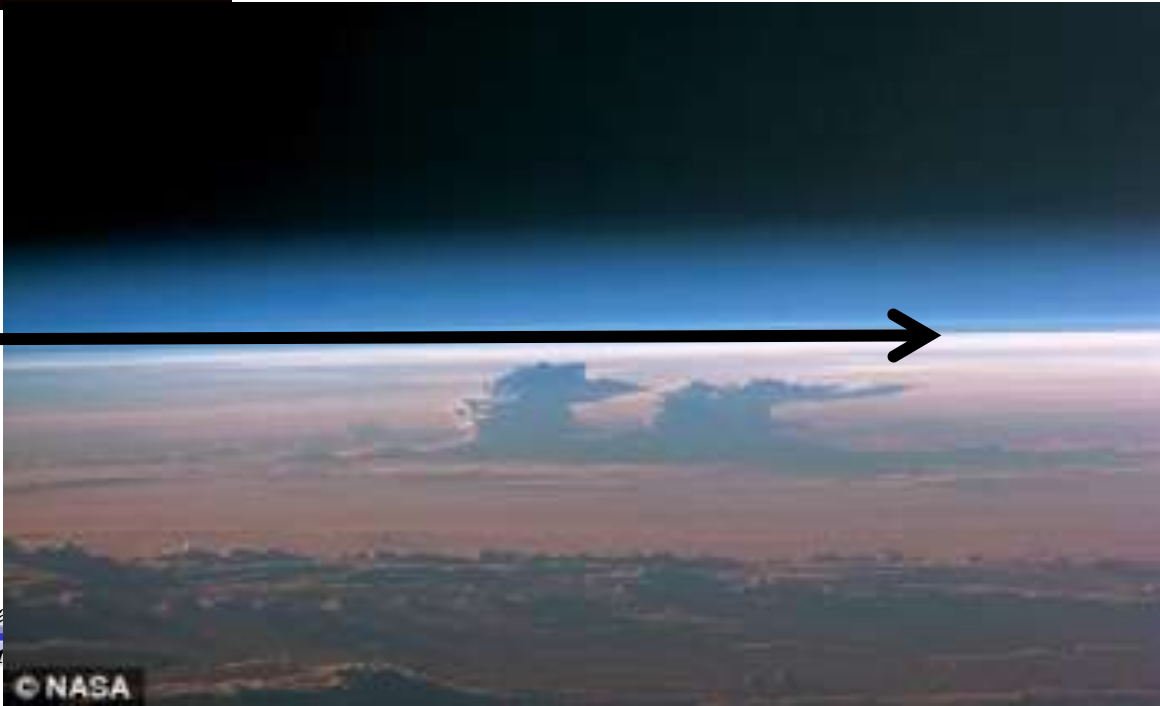


## 5. Low Atmospheric Shear

Little shear



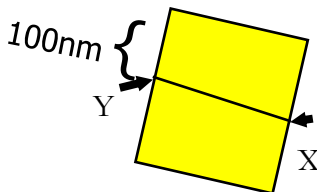
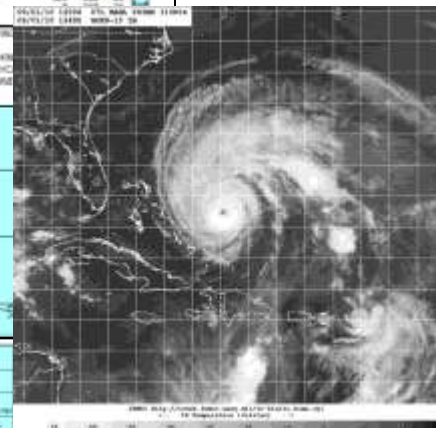
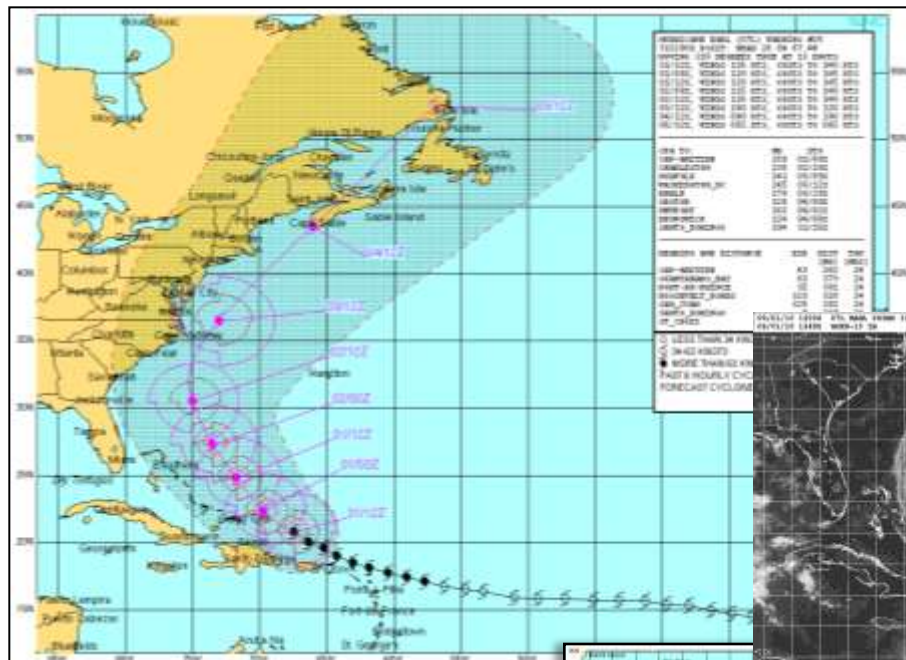
Strong shear





# Tropical Warnings

- Staff Coordination
  - National Hurricane Center
  - US Fleet Forces Command
  - 2nd & 4th Fleet SORTIE
  - CNIC TC-CORs
  - ACFT HURREVAC
- TC Warnings
  - NHC-ATCF
  - Updated every 6 hours
  - Text & graphics
- Alerts
  - TCFA



Possible TCF between position X and Y in the next 24 hrs





# TC CORs and Sortie Conditions

## Tropical Cyclone Conditions (TCC) of Readiness (ASHORE)

**COR 5:** Destructive winds of  $\geq 50$  kts are possible w/in 96 hrs

**COR 4:** possible w/in 72 hrs

**COR 3:** possible w/in 48 hrs

**COR 2:** anticipated w/in 24 hrs

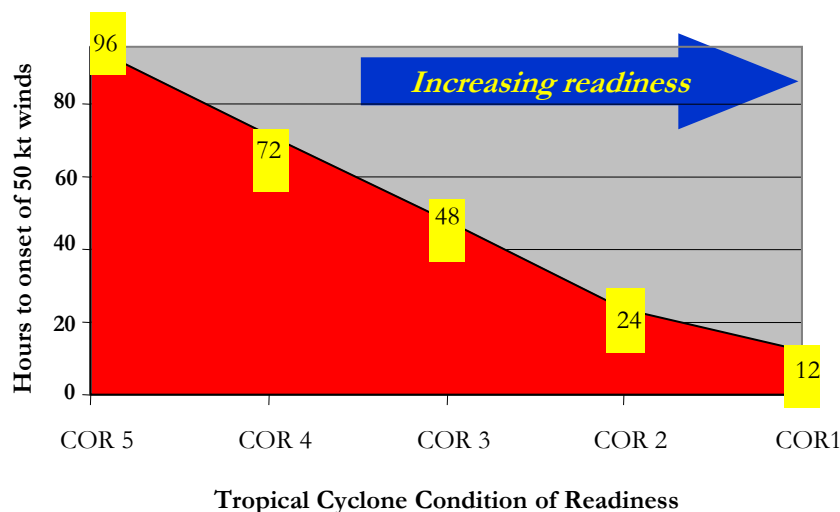
**COR 1:** anticipated w/in 12 hrs

## HURREVAC CONOPS (Per CNAL/CNATRA Instructions)

*Preparations tied to TC Conditions of Readiness*

*Aircraft out or hangared 12 hrs prior to onset of destructive winds (COR 1)*

## Tropical Cyclone Conditions of Readiness \*

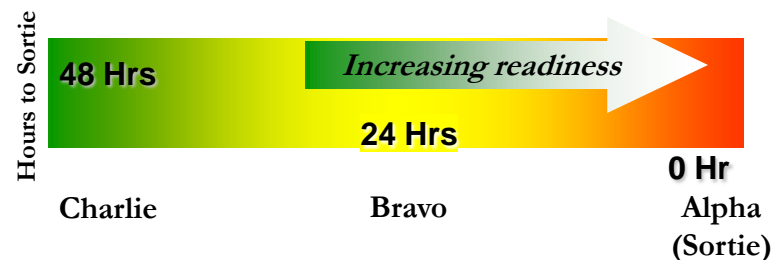


## Sortie Criteria

(per USFF OPORD 2000-07)

- Sortie if winds  $> 50$  kts
- Sortie early to avoid 12 ft seas
- Consider local storm surge

## Ship Sortie Conditions of Readiness







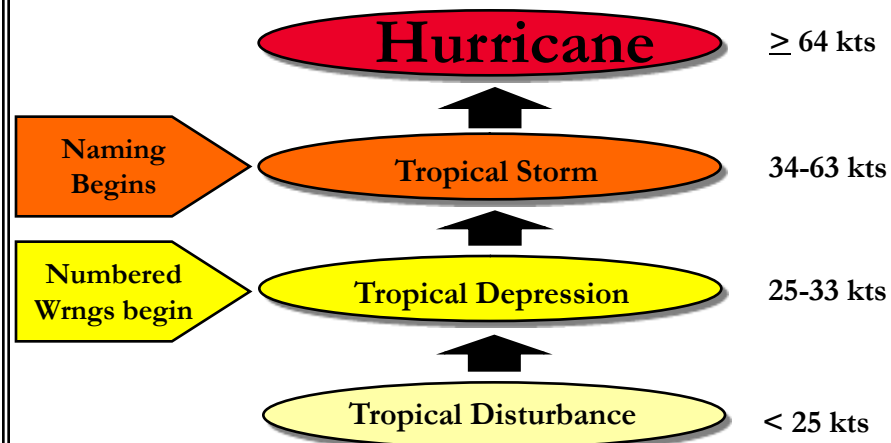
# Tropical Season FAQs

## Saffir-Simpson Scale

Cat	Wind (kts)	Damage
1	64-82	Minimal
2	83-95	Moderate
3	96-112	Extensive
4	113-136	Extreme
5	> 136	Catastrophic

Cat 3/4/5 systems are “Major hurricanes”

## Stages of Development



## 2012 Tropical Cyclone Names

Alberto	Helene	Oscar
Beryl	Isaac	Patty
Chris	Joyce	Rafael
Debby	Kirk	Sandy
Ernesto	Leslie	Tony
Florence	Michael	Valerie
Gordon	Nadine	William

## Tropical Cyclone Symbols

(	Tropical Wave	
L	Low Pressure Center	⊗ Tropical Depression
6	Tropical Storm	☄ Hurricane

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**New for  
2012**

**From:**

**Category 3: 111-130 mph (96-113 kt, 178-209 km/h)**

**Category 4: 131-155 mph (114-135 kt, 210-249 km/h)**

**Category 5: 156 mph or higher (136 kt or higher, 250 km/h or higher)**

**To:**

**Category 3: 111-129 mph (96-112 kt, 178-208 km/h)**

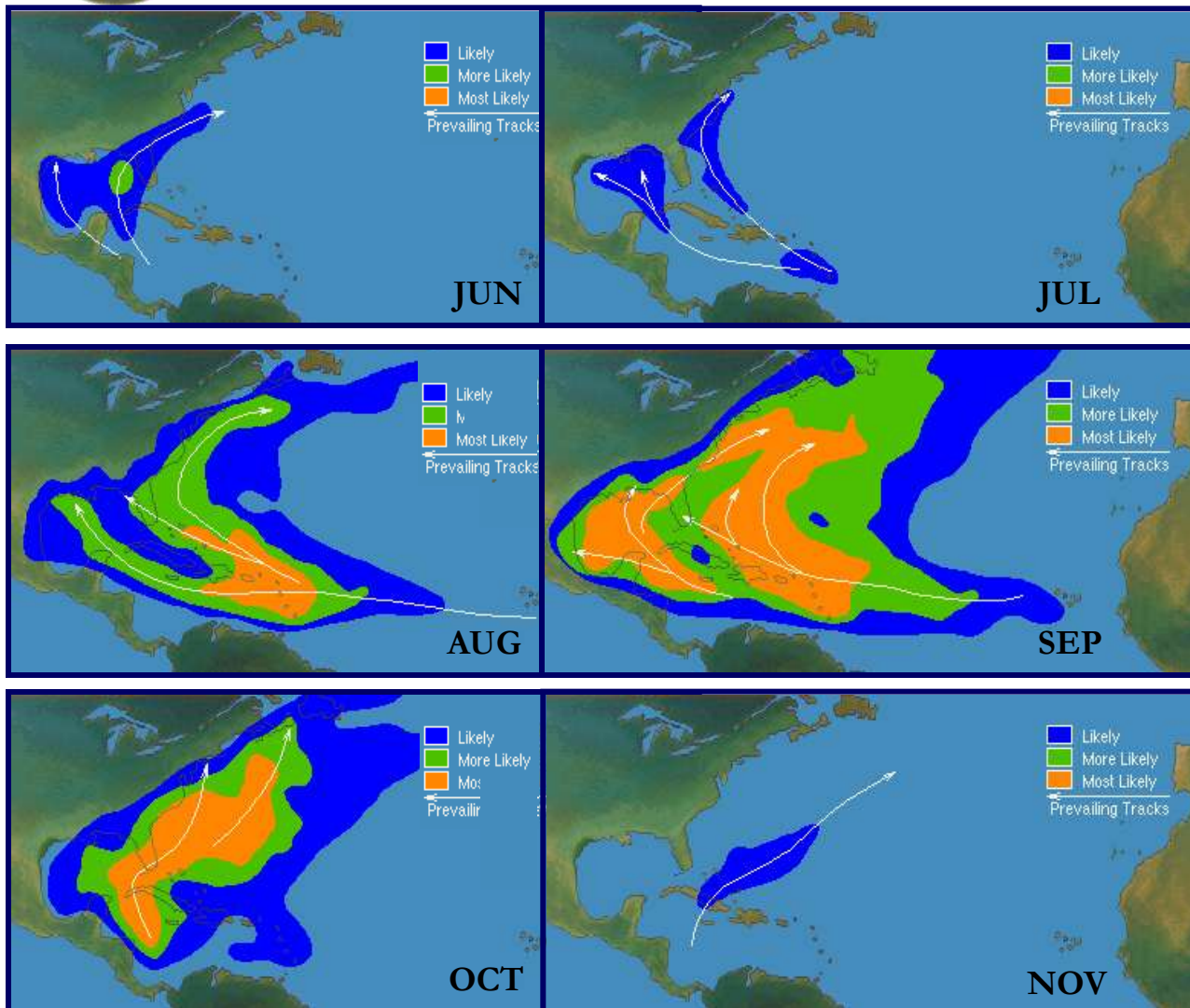
**Category 4: 130-156 mph (113-136 kt, 209-251 km/h)**

**Category 5: 157 mph or higher (137 kt or higher, 252 km/h or higher)**

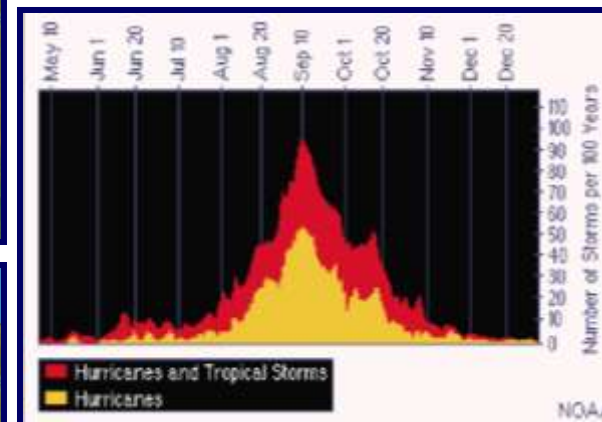




# Track Climatology



Peak season: 10 SEP



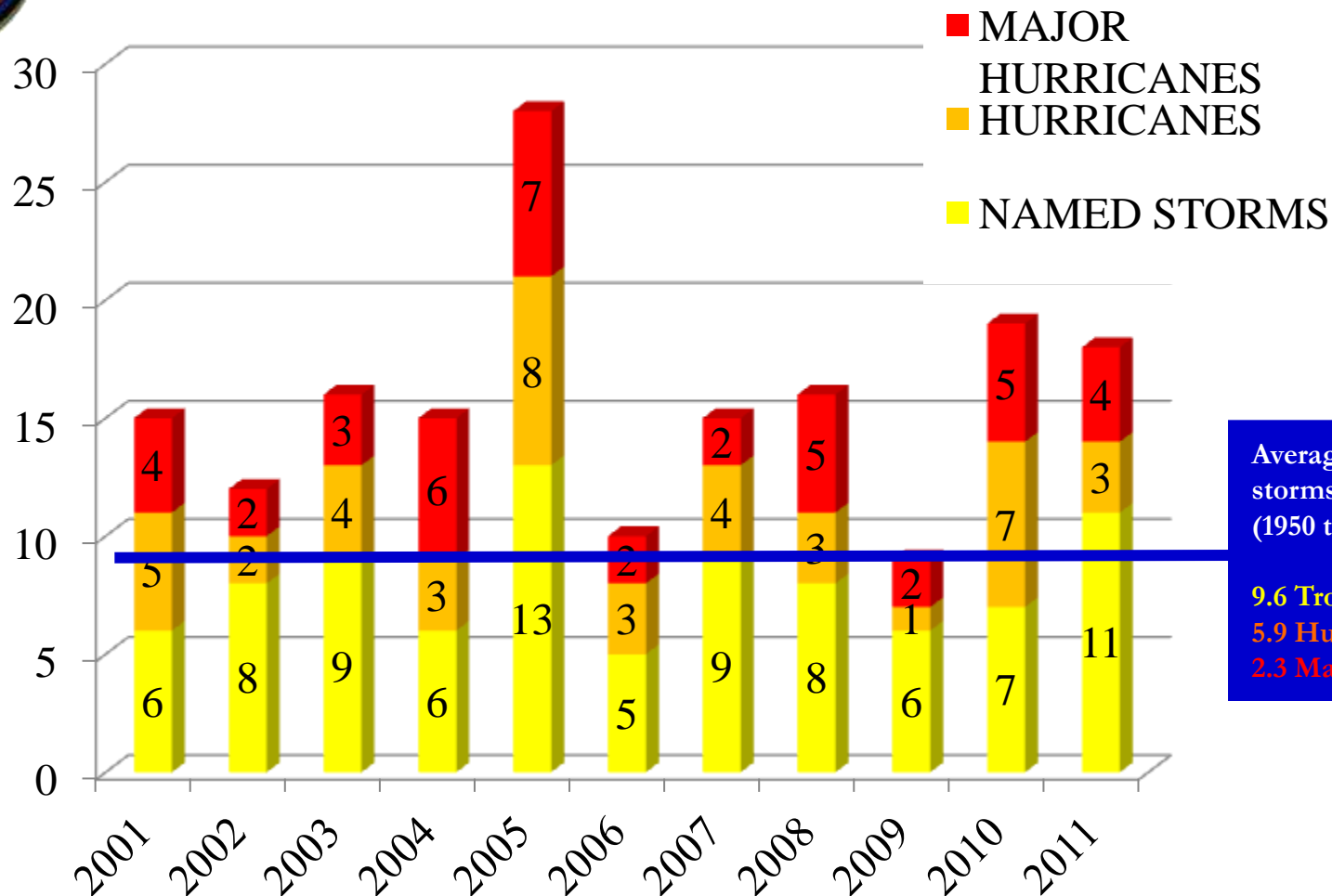
GOMEX/CARIB water temps



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# Tropical Cyclone History







# Hurricane strikes 1851-2006 on the mainland U.S. coastline

AREA	CATEGORY NUMBER					ALL	MAJOR HURRICANES
	1	2	3	4	5		
U.S. (Texas to Maine)	110	73	75	18	3	279	96
Texas	23	18	12	7	0	60	19
(North)	12	7	3	4	0	26	7
(Central)	7	5	2	2	0	16	4
(South)	7	7	7	1	0	22	8
Louisiana	18	14	15	4	1	52	20
Mississippi	2	5	8	0	1	16	9
Alabama	16	4	6	0	0	26	6
(Inland only)	6	0	0	0	0	6	0
Florida	43	33	29	6	2	113	37
(Northwest)	26	17	14	0	0	57	14
(Northeast)	12	8	1	0	0	21	1
(Southwest)	18	10	8	4	1	41	13
(Southeast)	13	13	11	3	1	41	15
Georgia	15	5	2	1	0	23	3
(Inland only)	9	0	0	0	0	9	0
South Carolina	18	6	4	2	0	30	6
North Carolina	24	14	11	1	0	50	12
(Inland only)	3	0	0	0	0	3	0
Virginia	7	2	1	0	0	10	1
(Inland only)	2	0	0	0	0	2	0
Maryland	1	1	0	0	0	2	0

Highest in nation

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U.S. DEPARTMENT OF COMMERCE, NATIONAL WEATHER SERVICE  
NORTH ATLANTIC HURRICANE TRACKING CHART

2010

NUMBER	TYPE	NAME	DATE
1	H	ALEX	JUN 25-JUL 2
2	T	BOHNE	JUL 22-24
3	T	COLIN	AUG 2-8
4	MH	DANIELLE	AUG 21-30
5	NH	EARL	AUG 25-SEP 4
6	T	FIONA	AUG 30-SEP 3
7	T	GASTON	SEP 1-2
8	T	HERMINE	SEP 5-9
9	MH	IGOR	SEP 8-21
10	MH	JULIA	SEP 12-20
11	MH	KARL	SEP 14-18
12	H	LISA	SEP 20-26
13	T	MATTHEW	SEP 23-26
14	T	NICOLE	SEP 28-29
15	H	OTTO	OCT 6-10
16	H	PAULA	OCT 11-15
17	H	RICHARD	OCT 20-25
18	H	SHARY	OCT 28-30
19	H	TOMAS	OCT 29-NOV 7

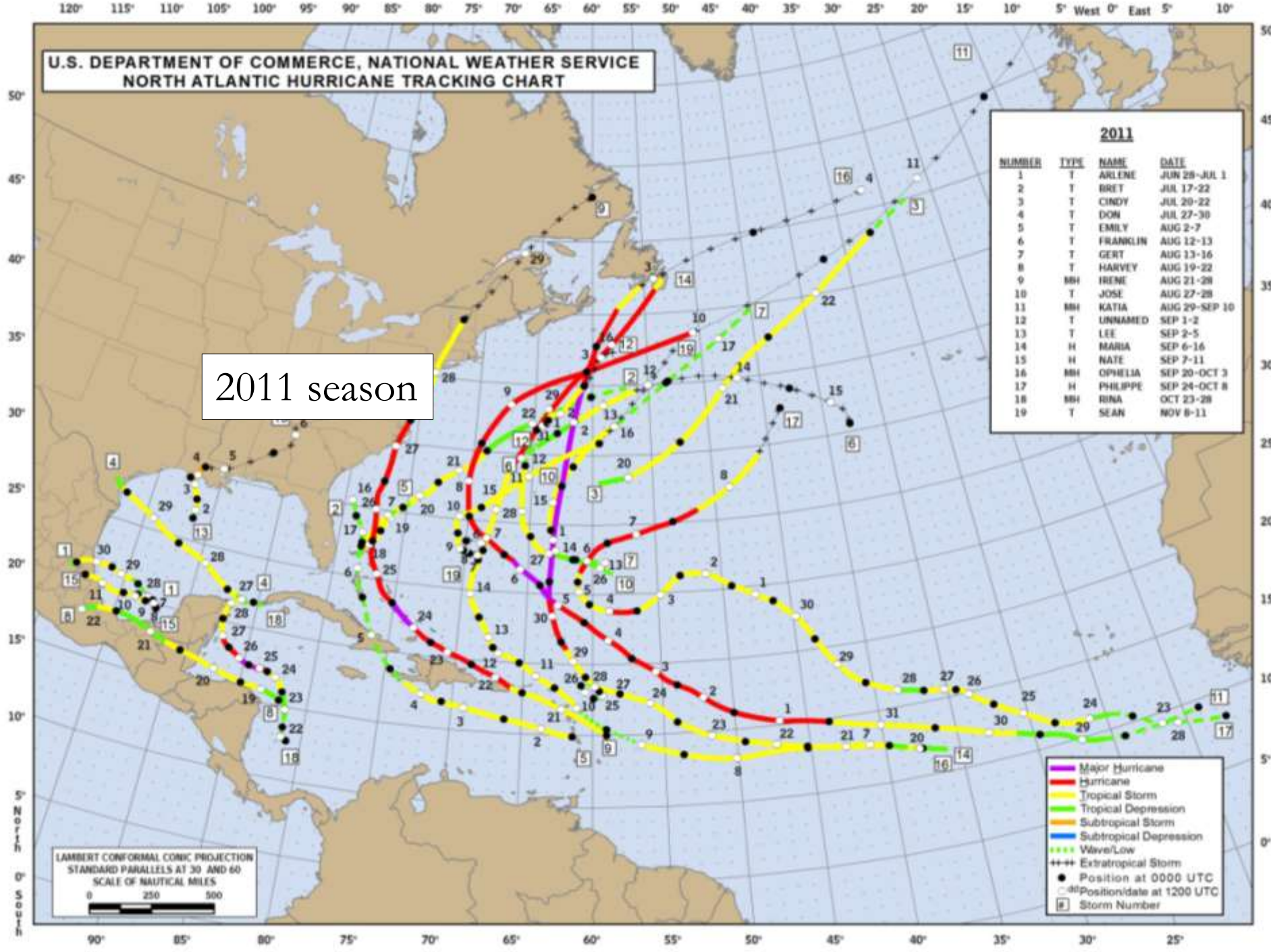
2010 season

First storm: 25 JUN  
Last storm: 07 NOV  
Strongest: Igor – 925 mb, 135 kts  
Total depressions: 21  
Total storms: 19  
Hurricanes: 12  
Major hurricanes: 5

LAMBERT CONFORMAL CONIC PROJECTION  
STANDARD PARALLELS AT 30° AND 60°  
SCALE OF NAUTICAL MILES  
0 250 500

Major Hurricane  
Hurricane  
Tropical Storm  
Tropical Depression  
Subtropical Storm  
Subtropical Depression  
Wave/Low  
+++ Extratropical  
● Position at 0000 UTC  
○ Position/date at 1200 UTC  
# Storm Number







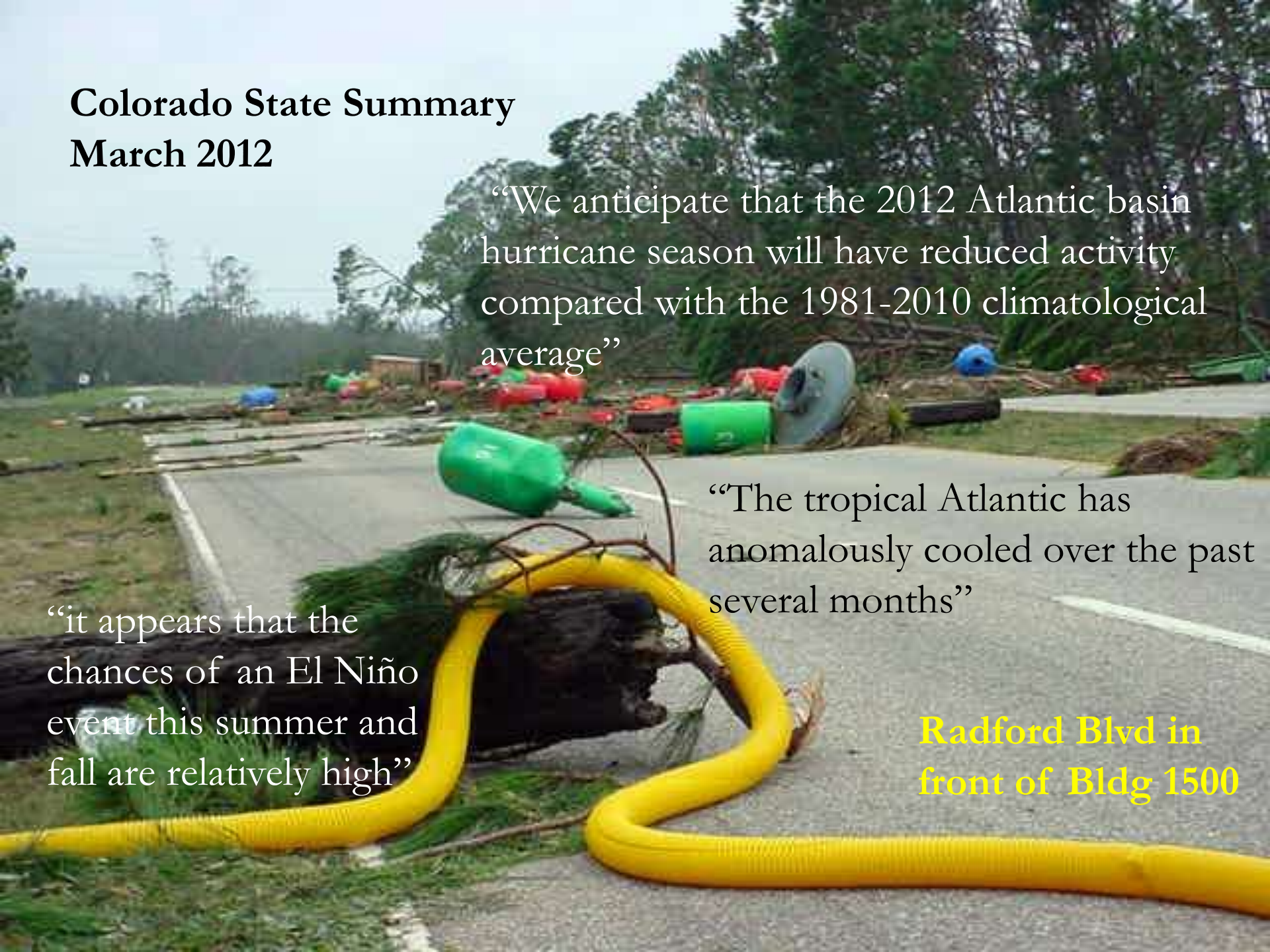
## Colorado State Summary March 2012

“We anticipate that the 2012 Atlantic basin hurricane season will have reduced activity compared with the 1981-2010 climatological average”

“it appears that the chances of an El Niño event this summer and fall are relatively high”

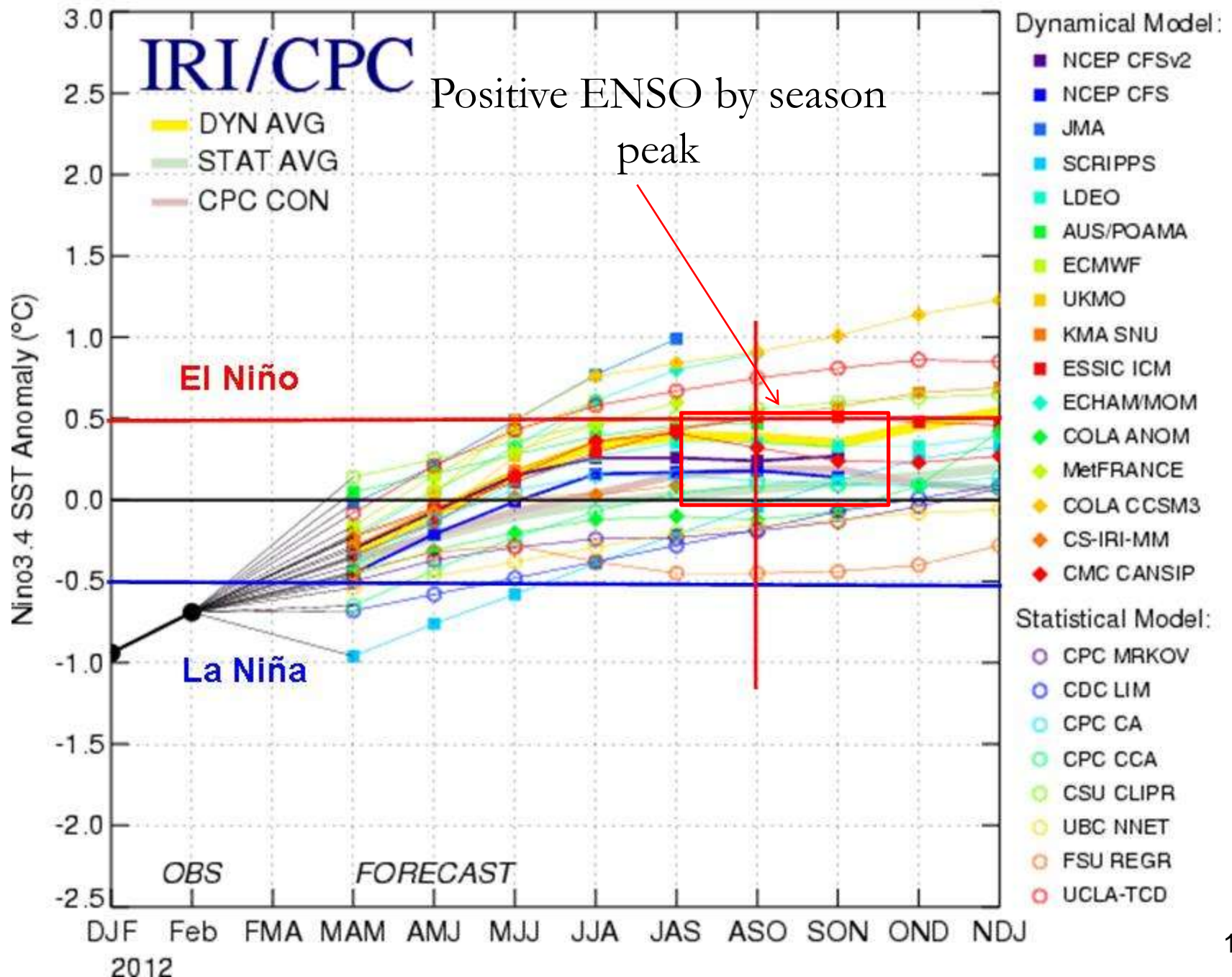
“The tropical Atlantic has anomalously cooled over the past several months”

**Radford Blvd in  
front of Bldg 1500**





# Mid-Mar 2012 Plume of Model ENSO Predictions





120° 115° 110° 105° 100° 95° 90° 85° 80° 75° 70° 65° 60° 55° 50° 45° 40° 35° 30° 25° 20° 15° 10° 5° West 0° East 5°

# NATIONAL HURRICANE CENTER ATLANTIC • CARIBBEAN • GULF OF MEXICO • HURRICANE TRACK CHART

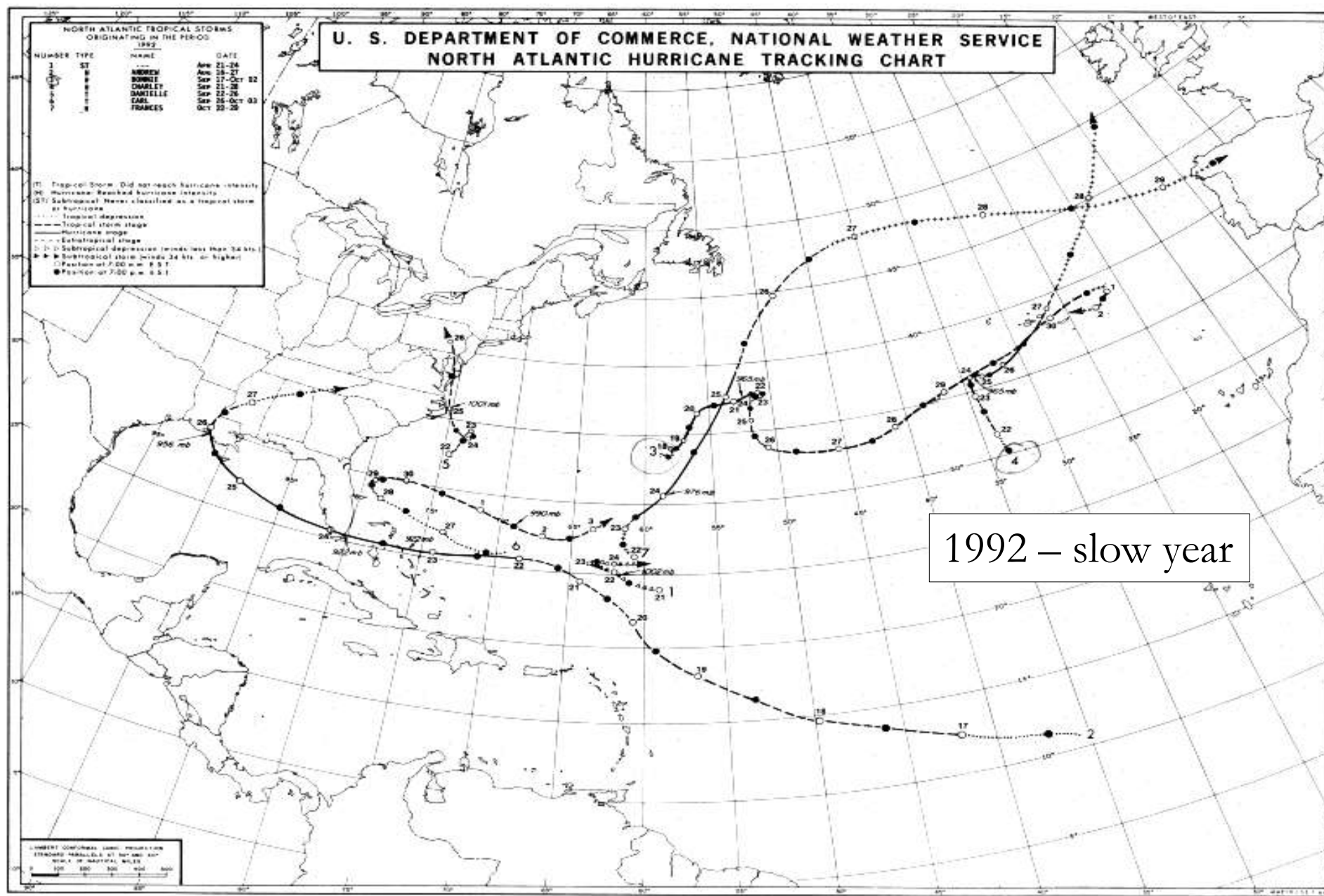
NUMBER	TYPE	1997 NAME	DATE
1	ST	—	01-02 June
2	T	ANA	30 June-04 July
3	T	BILL	11-13 July
4	T	CLAUDETTE	13-16 July
5	H	DANNY	16-26 July
6	H	ERIKA	03-15 Sep.
7	T	FABIAN	04-08 Oct.
8	T	GRACE	16-17 Oct.

1997 – slow year

- Hurricane (H)
- Tropical Storm (T)
- Tropical Dep.
- Subtropical Storm (ST)
- Subtropical Dep.
- +++ Extratropical
- Position at 0000 UTC
- Position/date at 1200 UTC
- [3] Tropical Cyclone Number
- ← ppp Minimum Pressure (mb)

Lambert Conformal Conic  
true at 20° and 40° North





1992 – slow year

# EVACUATION

## 2 Types

### ☐ Voluntary

Know your area!

-Are you in a storm surge area or flood plain?

-Have a plan!

### ☐ Mandatory

▪County EM will determine which areas will evacuate; usually coastal and low-lying areas.

▪Installation Commanding Officer determines for NASP





# Evacuation Routes



***NAS Pensacola Mission***— support operational and training missions of tenants assigned; enhancing the readiness of the U.S. Navy, its sister armed services and other customers.



# POST STORM RETURN

- ☐ When all Clear is issued
- ☐ Base roads are safe
- ☐ Personnel with access stickers will be allowed to enter to assess damage and begin recovery efforts
- ☐ Stickers are not authorization to remain on base during mandatory evacuation!!





# BE PREPARED!!

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- ☐ Develop a Family Plan
- ☐ Create a Disaster Supply Kit
- ☐ Have a place to go
- ☐ Secure your home
- ☐ Have a family pet plan



# FAMILY DISASTER PLAN

- ☐ Have an out-of-state family or friend contact point
  - Safe haven designated for NASP is a 350 NM radius from NASP
  - Atlanta, Ga is designated city
- ☐ Make a plan NOW for what to do with your pets if you evacuate.
  - Most shelters/hotels do not allow pets!
- ☐ Prepare a disaster supply kit
- ☐ Use a NOAA weather radio. Remember to check batteries!!

Radford Blvd @ Sherman Cove





# Disaster Supply Kit/Supplies

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- Heavy duty trash bags
- Bleach
- Water purification tablets
- Non-perishable food (pre-packaged or canned)
- Manual can opener
- Emergency / Camping equipment and fuel
- Matches / Lighters
- Portable Cooler
- Rope / Duct tape
- Tarp
- Portable fire extinguisher
- Pet carrier and supplies



# Home Preparations (COR 3 – COR 1)

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- Clean w/bleach then fill bathtubs with water
- Set refrigerator to coldest settings
- Freeze water in jugs
- Fill fuel tanks (car, propane)
- Begin boarding up house
- Get extra cash
- Place valuables in water tight bags / containers
- Secure yard equipment (grills, swings, etc.)
- Protect electronics
  - \*Bag them
  - \*Move to interior locations off the floor if possible







# Some Information Sources

## Some Information Sources

- ☐ Broadcasts
  - WEAR Channel 3
  - WNAS Channel 4 (NAS base television)
  - WKRG Channel 5
  - 97.5 FM
  - 98.7 FM
  - 101.5 FM
  - 980 AM
  - 1620 AM



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# www.bereadyescambia.com



## Quick Links

- Emergency Notification System
- Florida 511 Traffic Information
- FloridaEvacuates.com
- Heartsaver CPR/AED and BLS for Healthcare Providers
- New Evacuation Zones
- Sign Up for News Updates

Escambia County faces many potential types of disasters – hurricanes, tornados, flooding, lightning, wildfires – and even man-made events such as hazardous materials spills and acts of terrorism. The mission of the Division of Emergency Management is to mitigate emergency situations and teach residents how to prepare their families, homes and businesses for disaster.



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# www.bereadyescambia.com



## FloridaEvacuates.com

[Home](#) [Shelter Information](#) [Preparedness Videos](#) [Mobile App](#) [Links](#) [Help](#)

**Please note:** Only shelters which are currently open will show up in searches. Statuses are handled by the American Red Cross.

Enter your location to find currently open shelters:

Search



### Shelters Locator

Locate a nearby emergency shelter by zip code and address. This tool may be used for planning and during an evacuation order.



\*511 IS A FREE RESOURCE OF FDOT

### Florida 511

Real-time traffic information, travel times, congestion, construction, severe weather and emergency evacuation information.



### National Weather Service

View the latest satellite and radar images from the National Weather Service



### Shelters Information

Answers to: Should I Stay or Should I Go? What to take and not take? What is an evacuation zone?



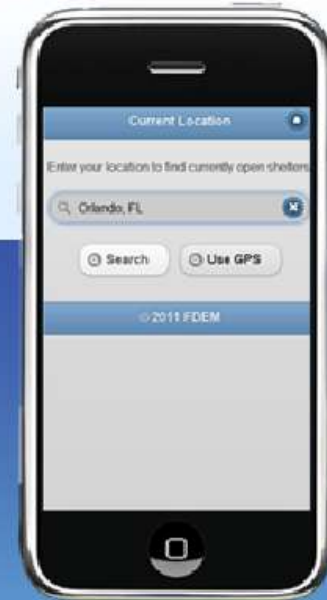
### Web Links

Links to other information from sources such as the FEMA and the National Weather Service and Kids Get A Plan.



### Preparedness Videos

Learn how to be prepared in the event of an emergency from hardware store owner Dorothy James.



### Florida Evacuates Mobile

Find out how to access step-by-step directions to a nearby shelter in the event of an emergency.

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# Emergency Card (front)

## NAS Pensacola Emergency Card

### Phone numbers:

**NASP UIC: 00204**

NASP Information Line:

**866-951-2322**

NASP Muster Line:

**866-795-7242**

Emergency Manager:

**850-452-4481**

NASP OOD:

**850-452-4785/6**

Fleet and Family Service Center:

**850-452-5990**

Red Cross Emergency Service:

**850-432-7601**

Casualty Assistance Branch:

**800-368-3202**

TRICARE (Out of town non-emergency) **800-444-5445**

Regional Ops Center (ROC)

**904-542-3118**





# Emergency Card (back)

## **NAS Pensacola Emergency Card**

Once you reach your safe haven/location following an evacuation from a Natural/Man made Disaster or Terrorist attack, you must immediately report your status and whereabouts to one of the following (in this order):

1. Command POC; 2. NFAAS; 3. NASP Muster Line 4. ROC

Contact your Chain of Command POC

POC is: \_\_\_\_\_

Command UIC: \_\_\_\_\_

Muster Tel #: \_\_\_\_\_

NFAAS website = [www.navyfamily.navy.mil](http://www.navyfamily.navy.mil)



## 2012 Base Sticker Color scheme

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❖ **Critical** – CO's/XO's/personnel remaining on board NAS Pensacola



❖ **Essential** – personnel returning immediately after the storm to NASP; CO informs PAO to execute return; PAO broadcast to local TV and radio stations that personnel with red stickers report back to work at xx:xx time



❖ **Corry/Saufley/NAVHOSP** – same procedure as essential; when CO determines that complex is safe, he'll order red and green stickers to report at xx:xx time



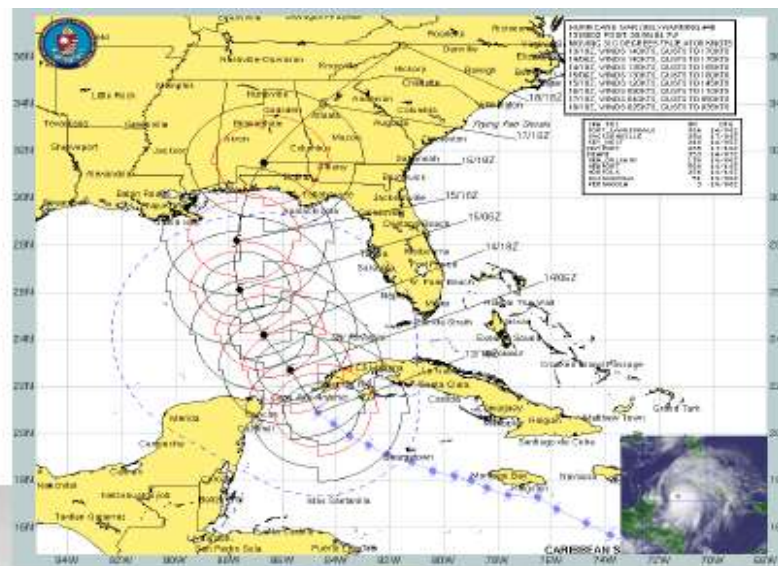
❖ **Housing occupants** – these are for personnel that live in Navy housing; this distinguishes them from “rubber neckers” wandering the base viewing damage; they could be ordered to return before the base wide return to work order to survey their dwelling for damage



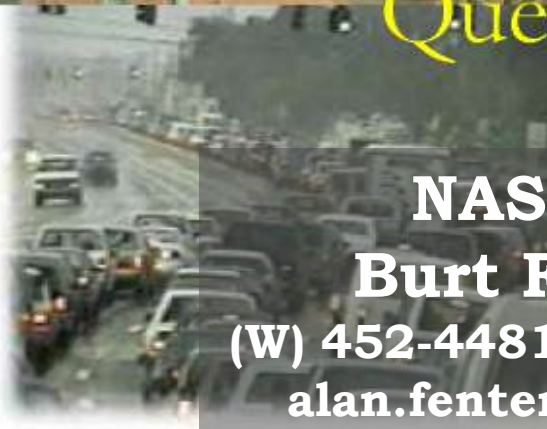


# Emergency Manager

REMEMBER  
BE PREPARED!!



Questions?



**NASP EM**  
**Burt Fenters**  
(W) 452-4481 (C) 418-5158  
[alan.fenters@navy.mil](mailto:alan.fenters@navy.mil)



Evelyn Shanahan

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